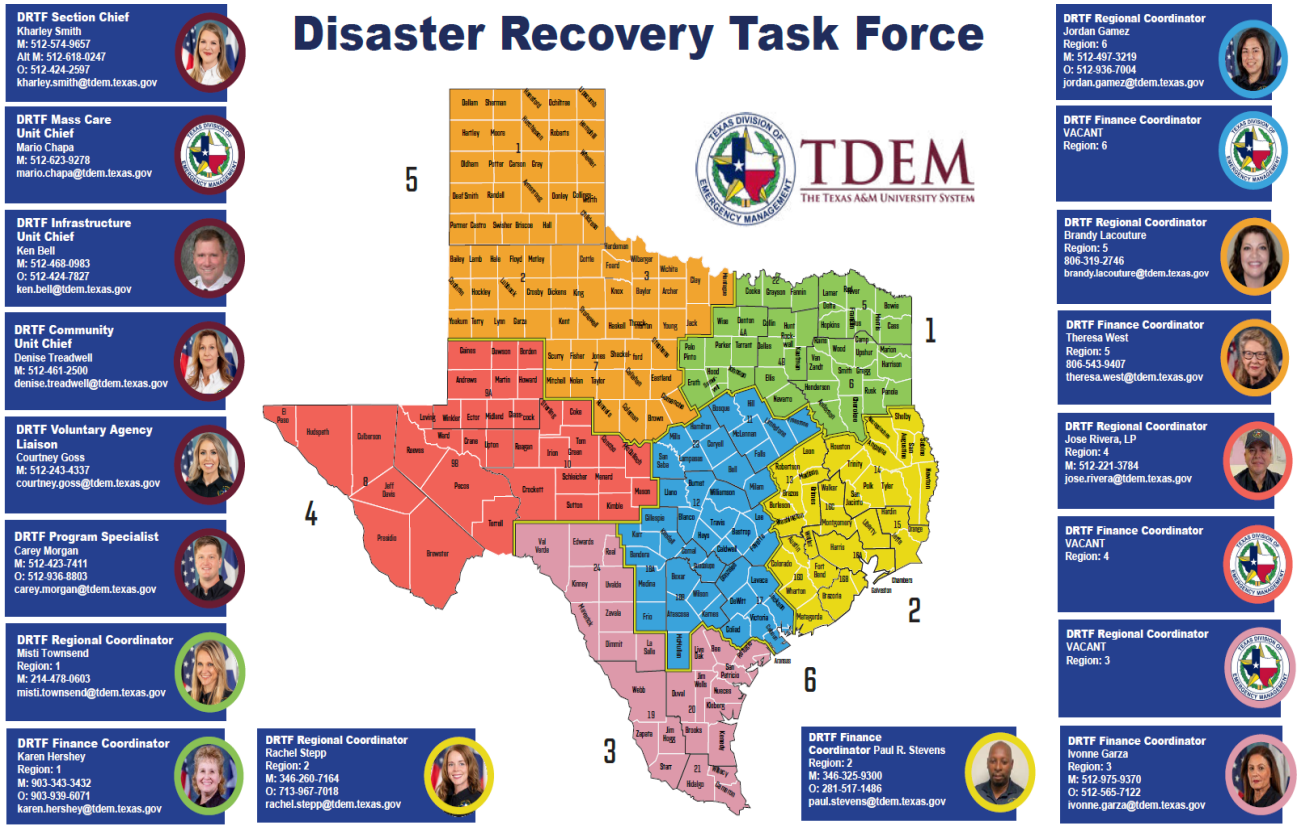
The TDEM Damage Assessment Process

Presented by: The Disaster Recovery Task Force

Mission Statement

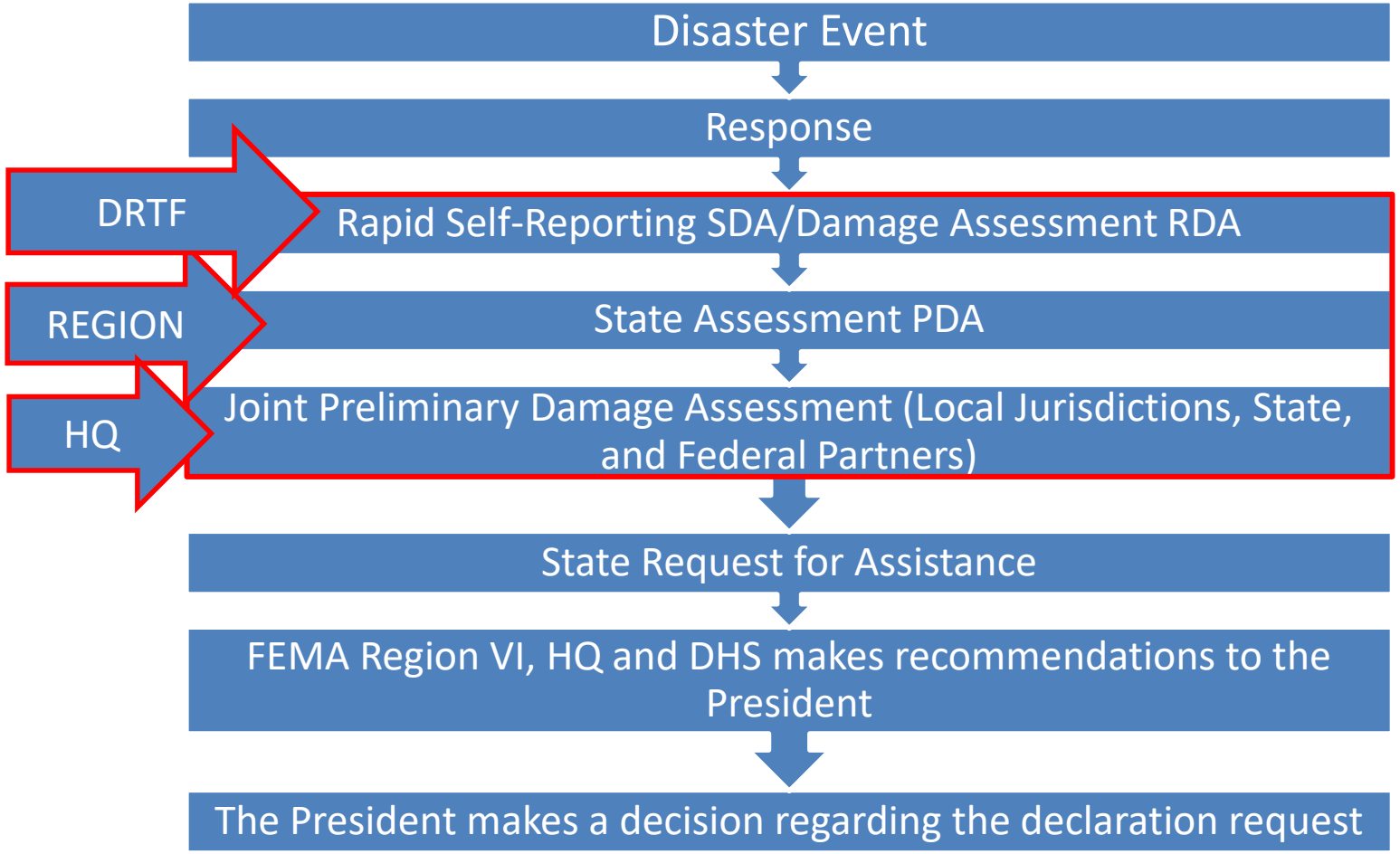
The Texas Disaster Recovery Task Force (DRTF) was developed to assist jurisdictions that have been impacted by an emergency or disaster recover more efficiently by starting the recovery process early in the response phase. DRTF members will assist with training, development of procedures, dissemination of the most current recovery information and could respond to support local jurisdictions during an event.



Agenda

- Sequence of Events
- Rapid Damage Assessments RDA – Self Damage Assessments iSTAT
- Survey1-2-3
- Virtual Validation/Web EOC
- Preliminary Damage Assessments (PDA)

Sequence of Events



*Teams may be developed and tasked as needed

Purpose of Rapid Damage Assessment (RDA) and Self-Damage Reporting(SDA)

The primary objective of the Rapid Damage Assessments (**RDA)** and Self-Damage Assessments (**SDA)** is to help disaster-impacted local governments, and the State of Texas, capture the scale/scope of the disaster.

Later in the process, the same data will be used in the PDA to determine whether the impacts of a disaster warrant a Presidential disaster declaration. Presidential disaster declarations specify whether jurisdictions are eligible for FEMA disaster assistance and what types of assistance are available.

Documentation gathered after the RDA is completed

1. Confirm Location on RDA Platform– Address/ GPS Coordinates (decimal format)
2. Update Damage Description and Dimensions (DDD)
3. Upload Additional Photographs

(already captured on the RDA)

1. Request Scope of Work (SOW)
2. Request Estimate Costs or Actual Costs
3. Force Account Labor/ Contract/ Both
4. Identify Codes and Standards
5. Environmental and Historical Preservation (EHP) Considerations
6. Other Federal Agencies who have Authority

RDA – SDA will provide....

- Locations of damages (including projected damages) using GPS or annotated maps
- Representative sample of photographs of damage
- Known access and functional needs (AFN) populations
- Assessment of temporary housing needs

Transitioning
Rapid Damage Assessment (RDA)
to
Preliminary Damage Assessment (PDA)

Public Assistance provides federal assistance to support communities' recovery from major disasters by providing them with grant assistance for debris removal, life-saving emergency protective measures and for restoring public infrastructure.

Joint PDAs are usually conducted to identify disaster-related damage and determine whether jurisdictions are eligible for PA. This event will not have a joint collaboration and require other tools.

We will be using the RDA Survey 123 System

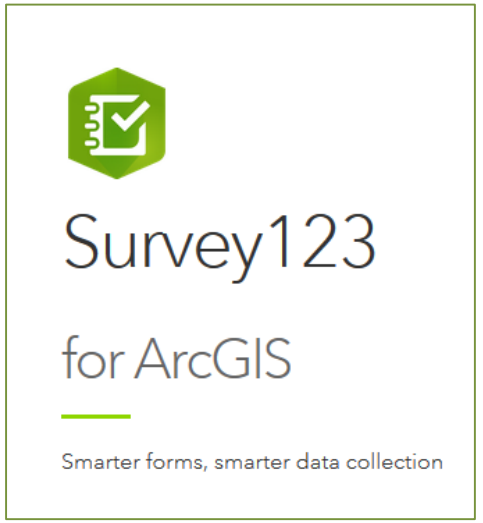
RDA – Public Damages
Survey123 Features

<u>Survey123</u>

Mobile Platform to Capture Storm Related Damages:

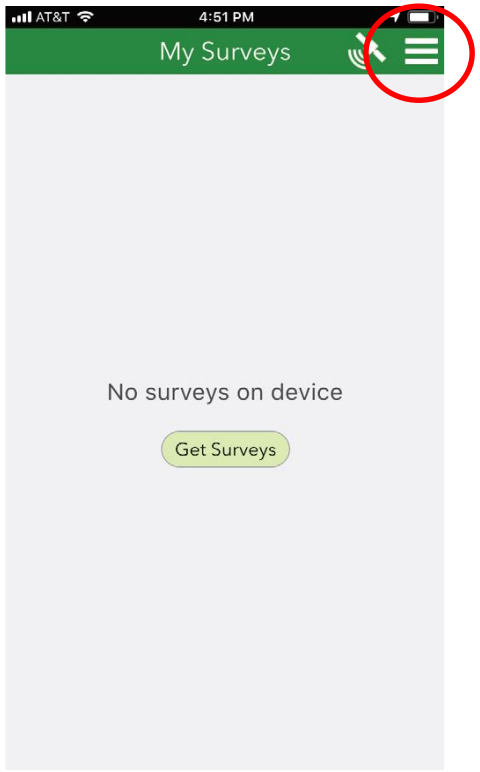
- Pictures
- Address
- Damage Assessment

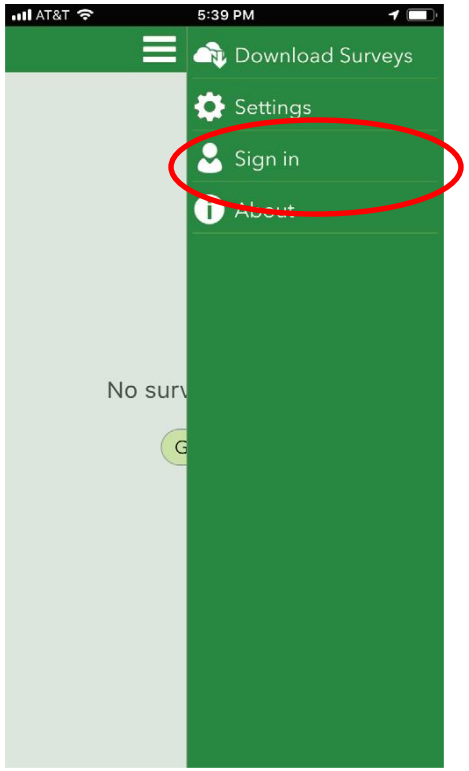
Used for Rapid Damage Assessments

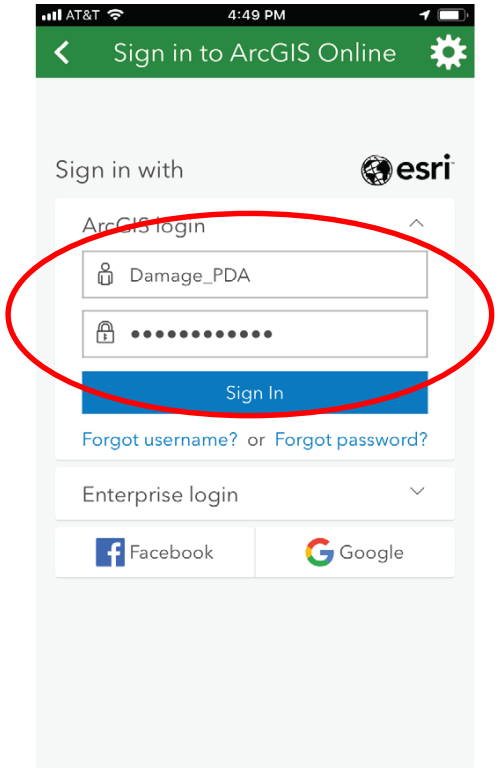


https://arcg.is/0f1PK5

Survey123 Step by Step

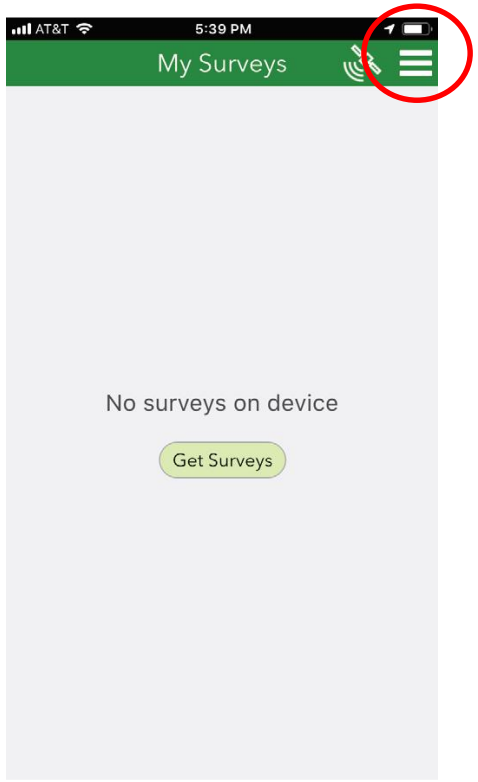


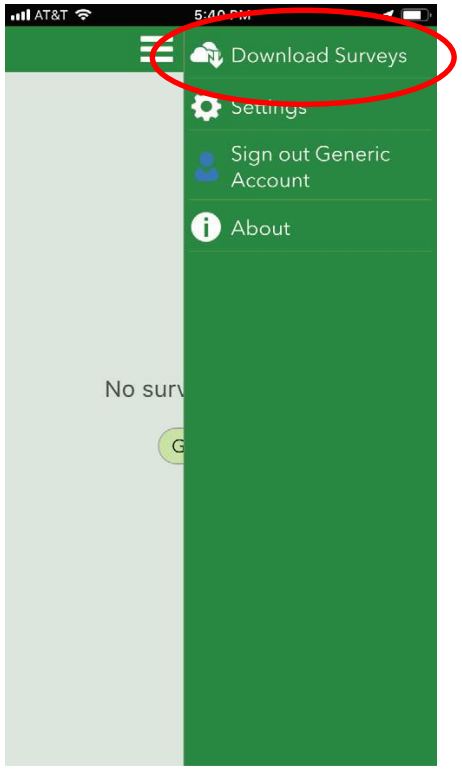


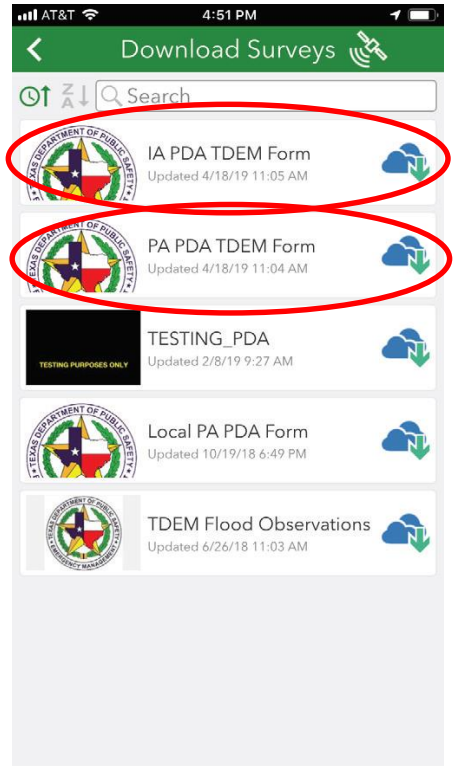


Username: TBA
Password: TBA

Survey123 Step by Step







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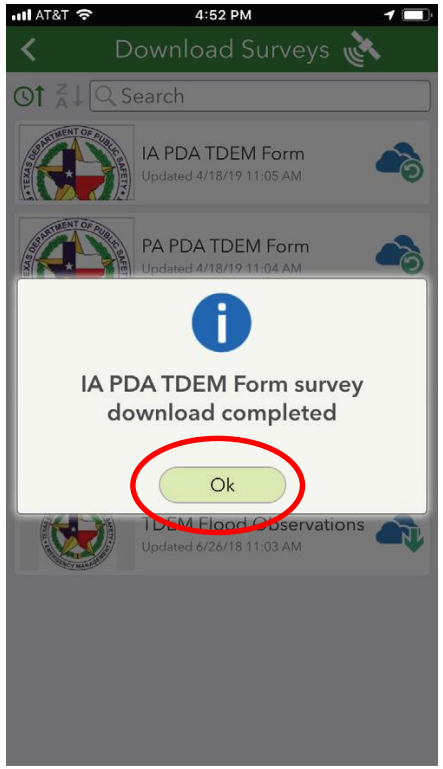
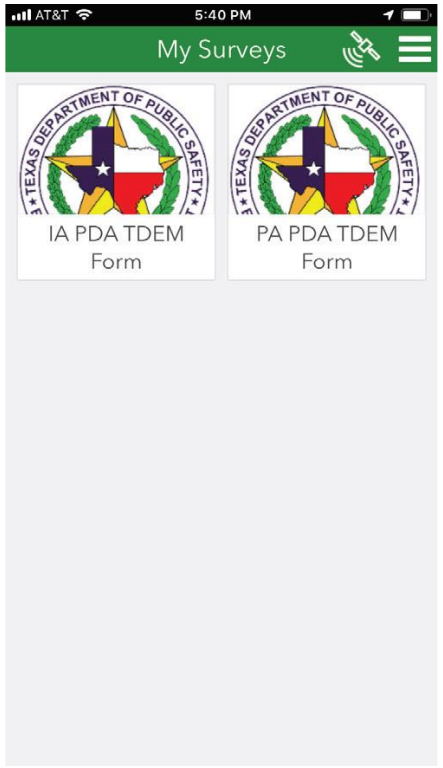
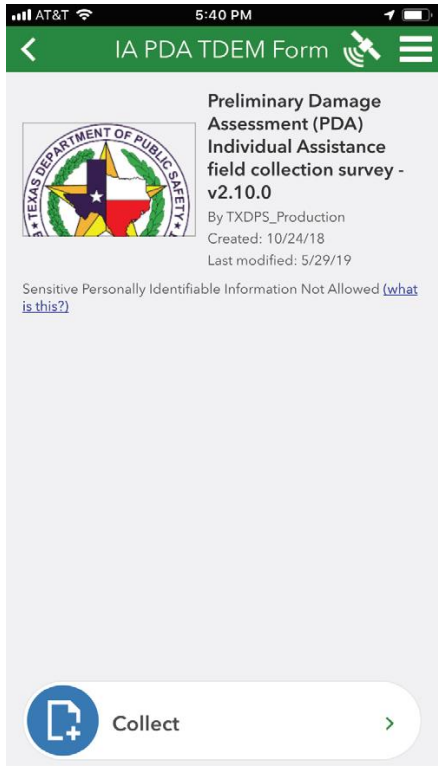
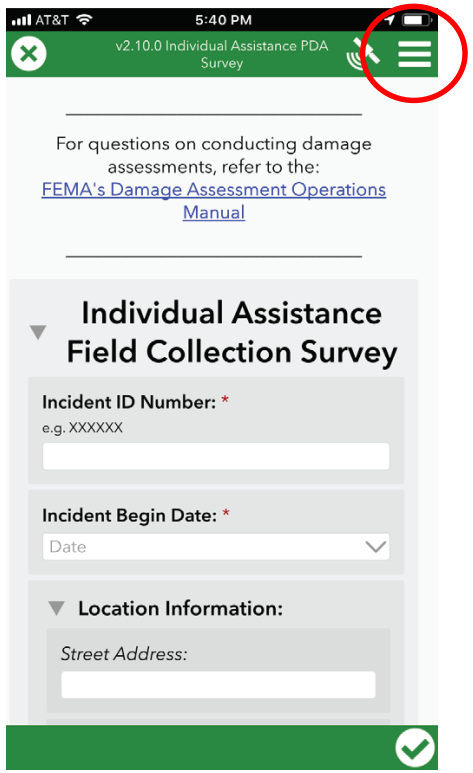


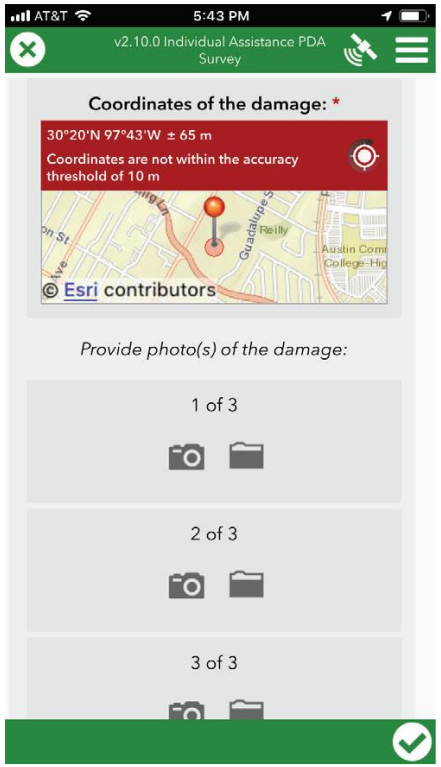




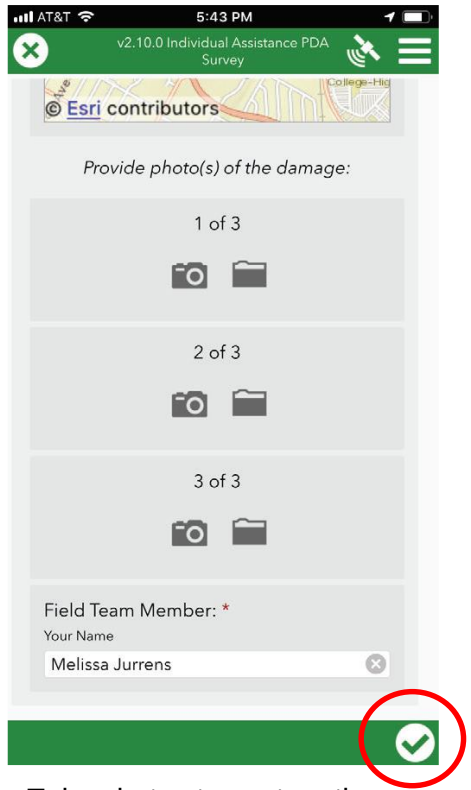
Survey123 Step by Step



In this initial PDA entry, **first fill out** the
- Incident ID Number
- Incident Begin Date
- State
- County
- Event Type
- Field Team Member



To drop the pin at the correct PDA site location on the map, **select the map area**



Take photos to capture the damage. Once the PDA form is complete, press the **Check Mark** in the lower right of the screen

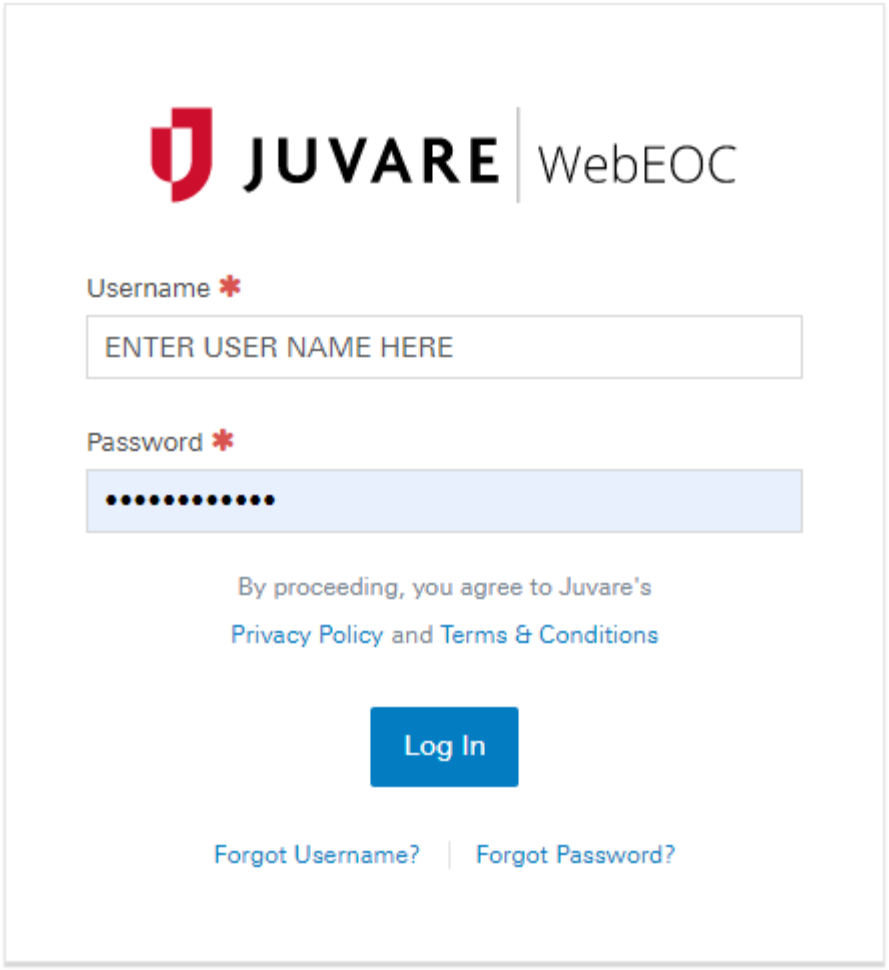
Web EOC Recovery Common Operating Picture (COP) Snapshot

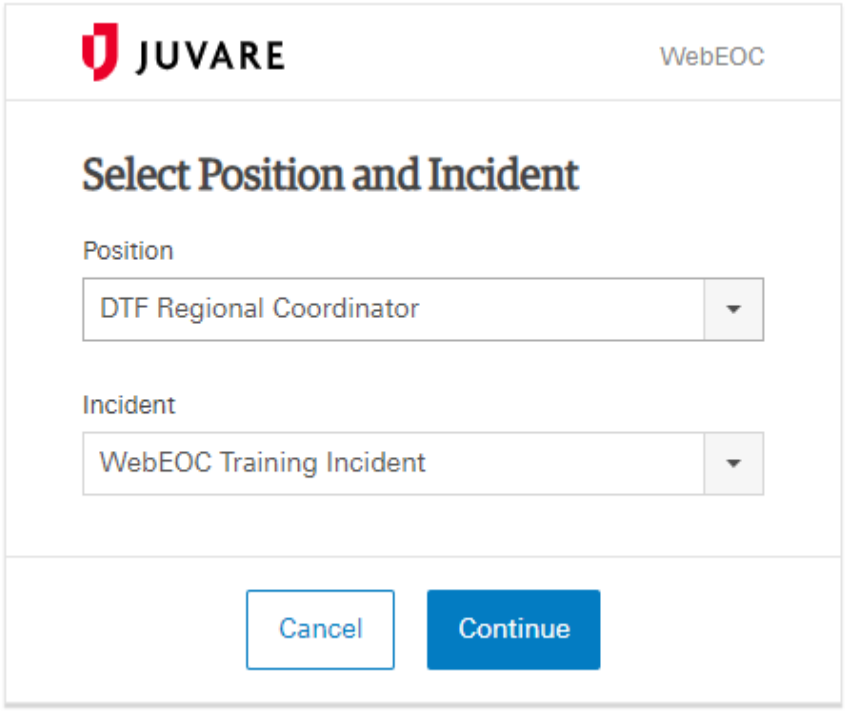
What is the Recovery Common Operating Picture (COP)?

A common operation picture (COP) is a continuously updated overview of an incident compiled throughout an incident's life cycle from data shared between integrated communication, information management, and intelligence and information sharing systems. The goal of a COP is real-time situational awareness across all levels of incident management and across jurisdictions.

For more information visit:
https://www.dhs.gov/sites/default/files/publications/CommonOpER_HLT_0908-508.pdf

Web EOC


JUVARE | WebEOC
Username *
ENTER USER NAME HERE
Password *
By proceeding, you agree to Juvare's
Privacy Policy and Terms & Conditions
Log In
Forgot Username?
Forgot Password?


JUVARE
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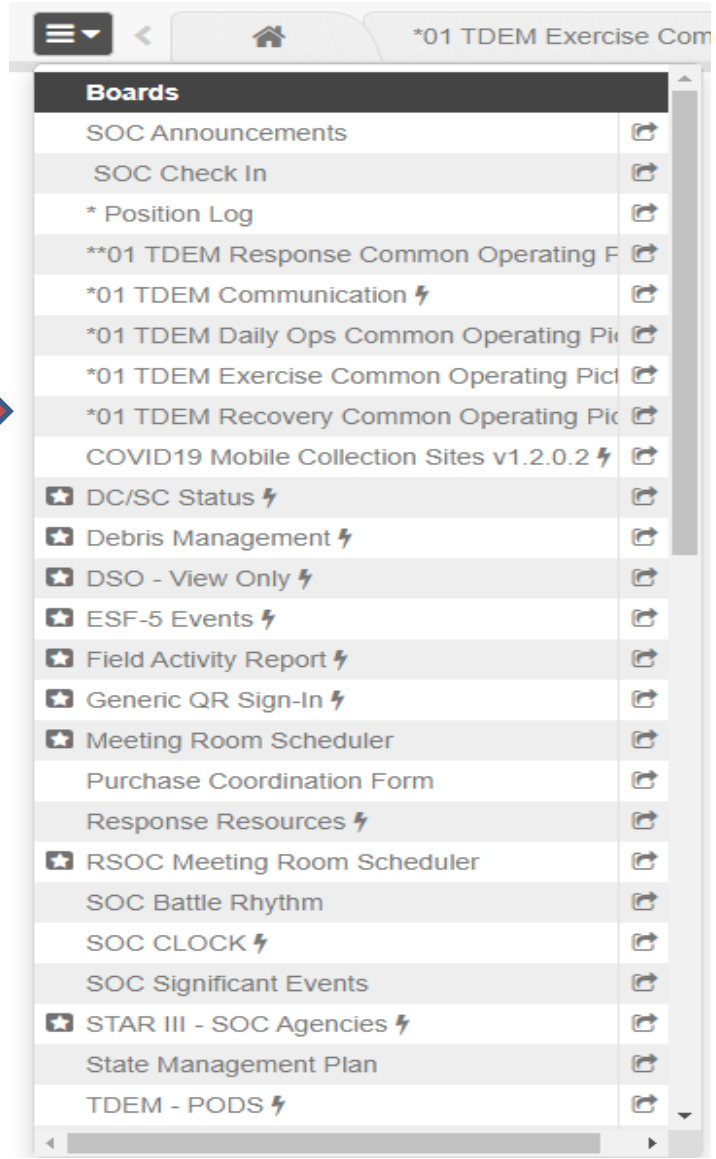
Select Position and Incident
Position
DTF Regional Coordinator
Incident
WebEOC Training Incident
Cancel
Continue



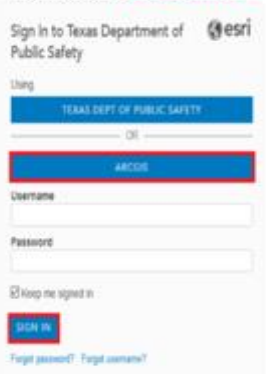
TDEM Response Common Operating Picture Start Page

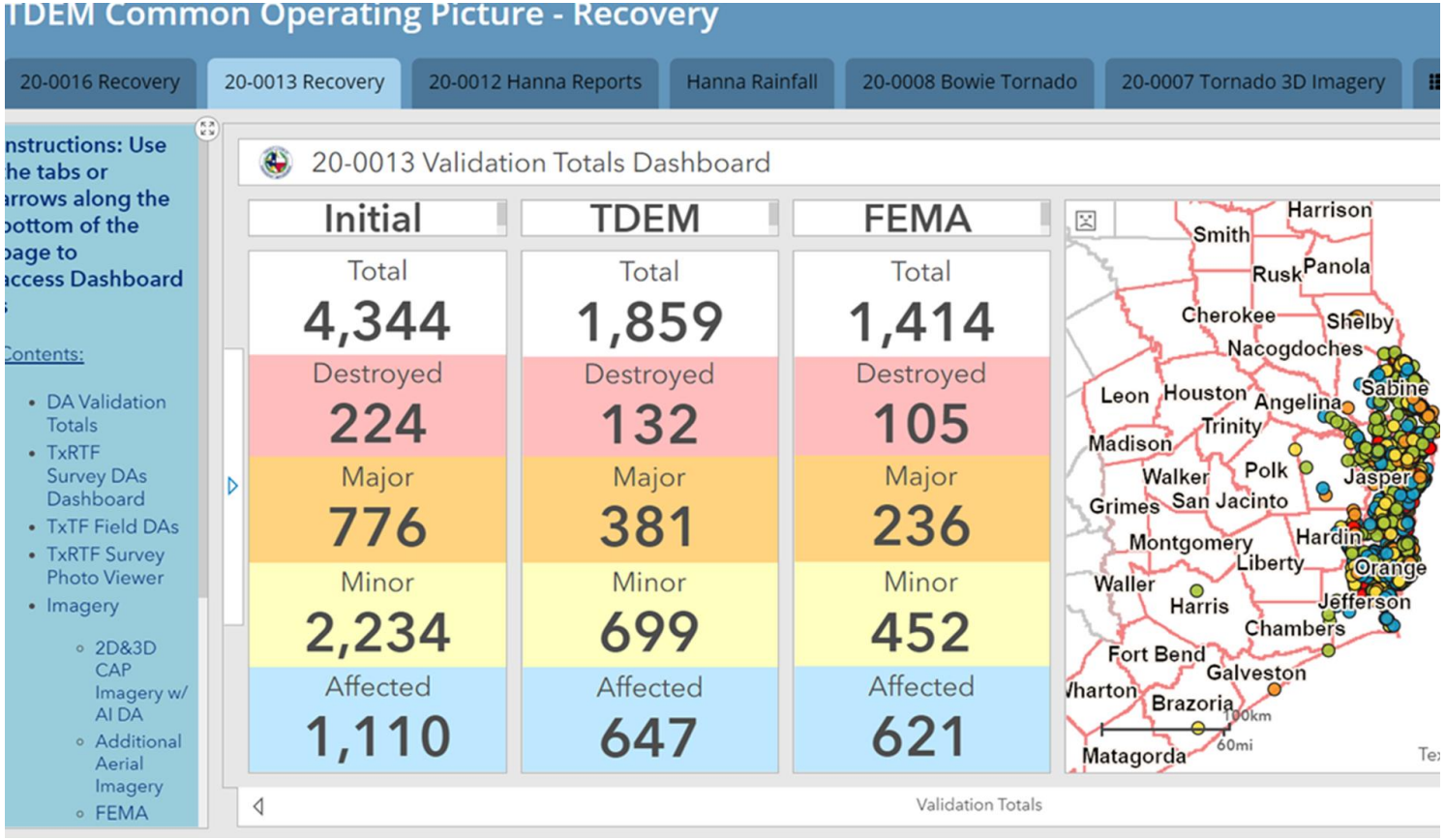
Open ArcGIS to Sign In

Open Dashboard

The current username and password for the Recovery Common Operating Picture is:

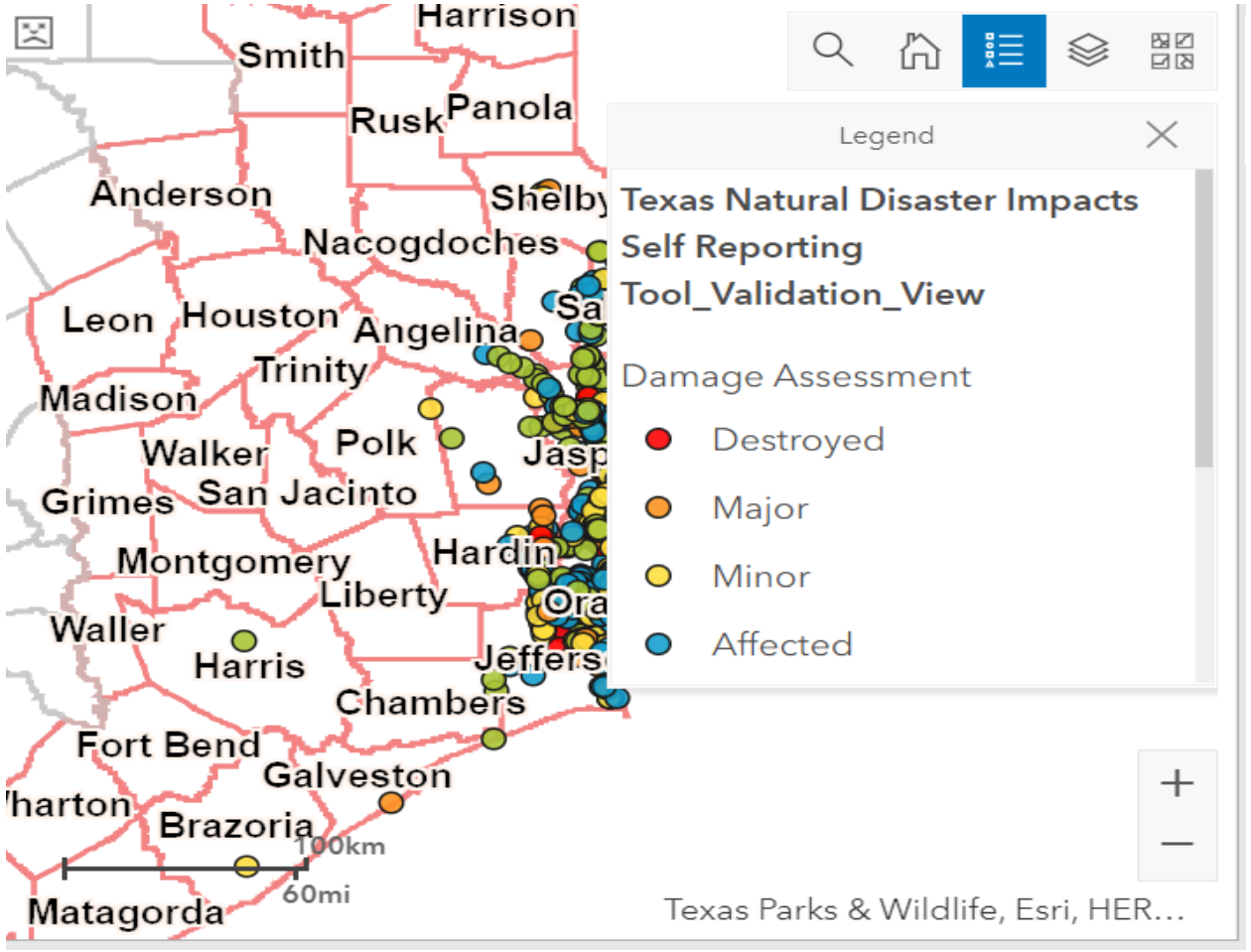
User:TDEM_Viewer
Password: SOC_Viewer1
Or
User:TDEM_Viewer2
Password: SOC_Viewer2

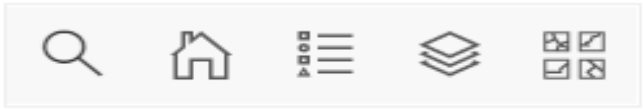




Common Operating Picture Dashboard

- Each incident will be listed on the tabs at the top of the dashboard.
- Here we can see a snapshot of Hurricane Laura damages.
- Initial reports come in and can be seen in the first column.
- Then TDEM validates the initial reports seen in the middle column.
- Then FEMA validates the data sent to them by the state or validates them by performing their own in field assessments seen in the 3rd column.

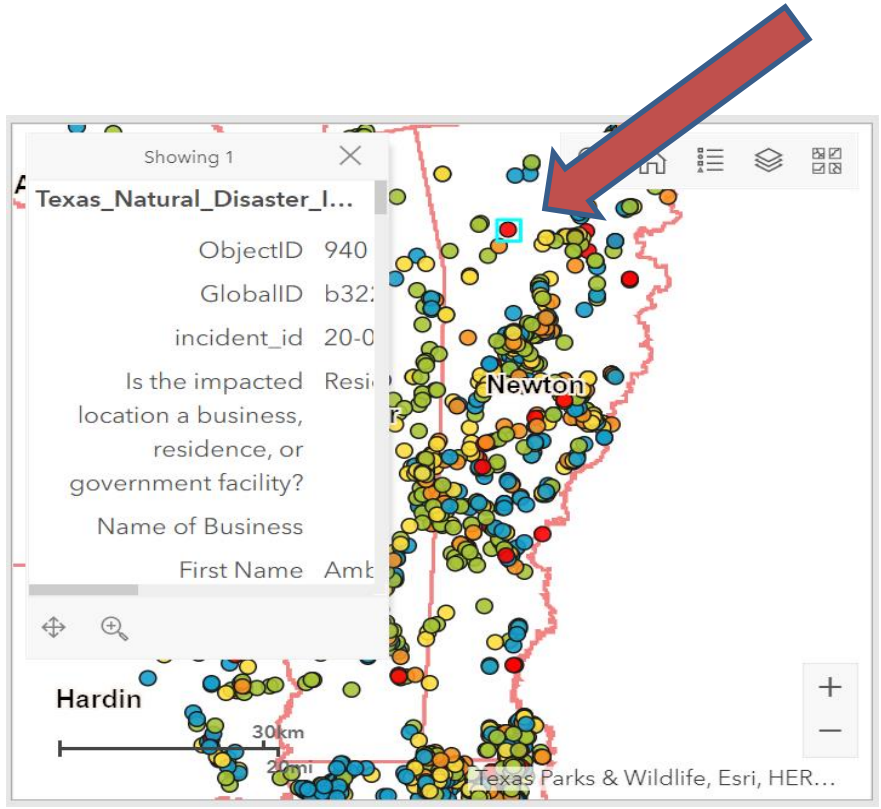




- The magnifying glass icon allows you to search a property by address.
- The house icon brings you back to the main dashboard
- The legend icon allows you to view the color chart meaning.
- The layers icon allows you to add or remove layers of your choice.
- The last icon shows you the available base maps.

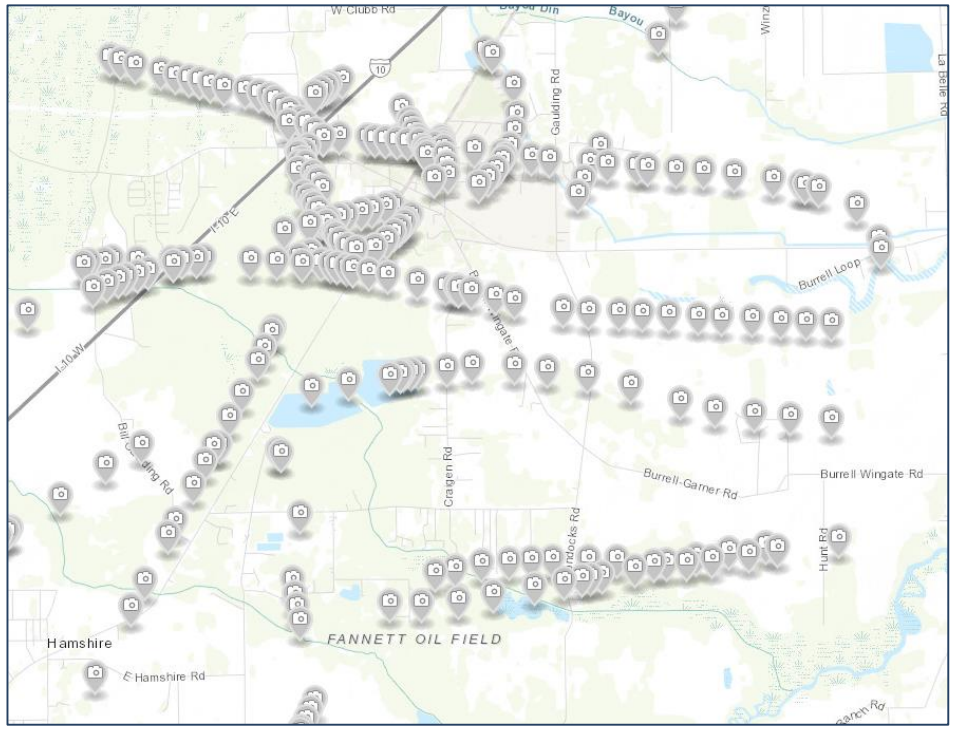
Viewing Damage Surveys

With proper approval, by clicking a dot of interest, a detailed survey will show up with homeowner demographics along with a photo of the damaged property.

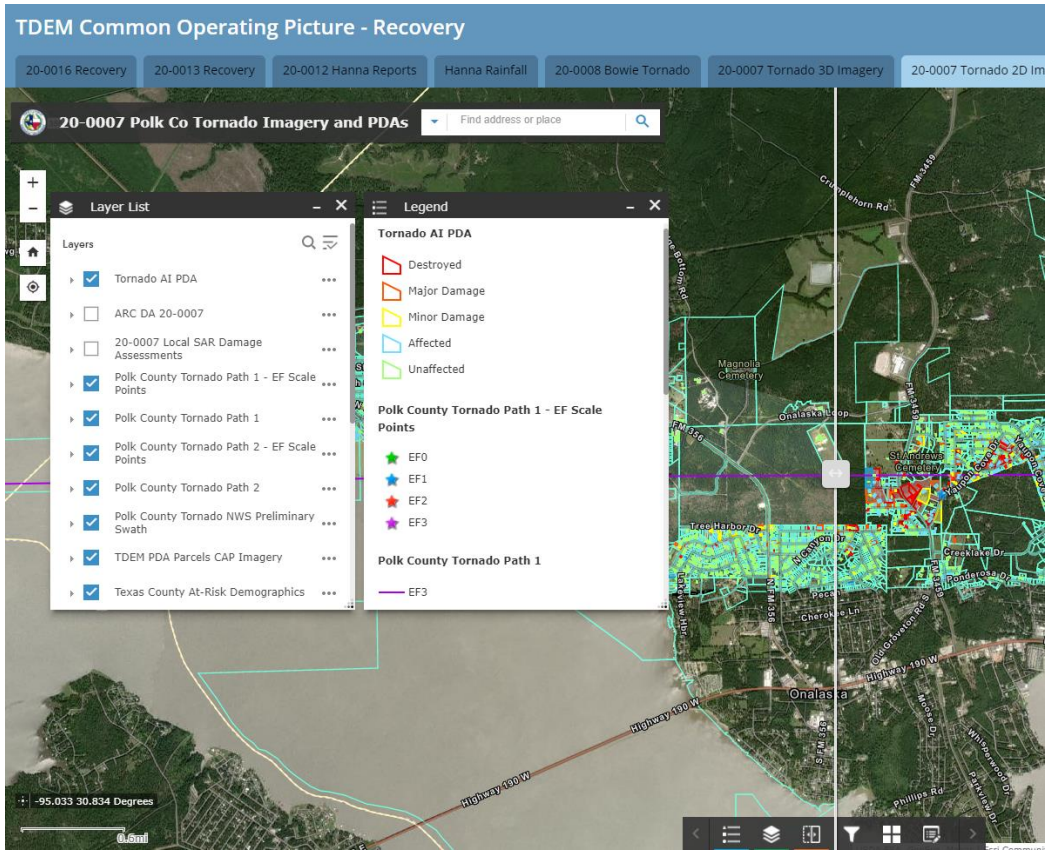


Remote Sensing

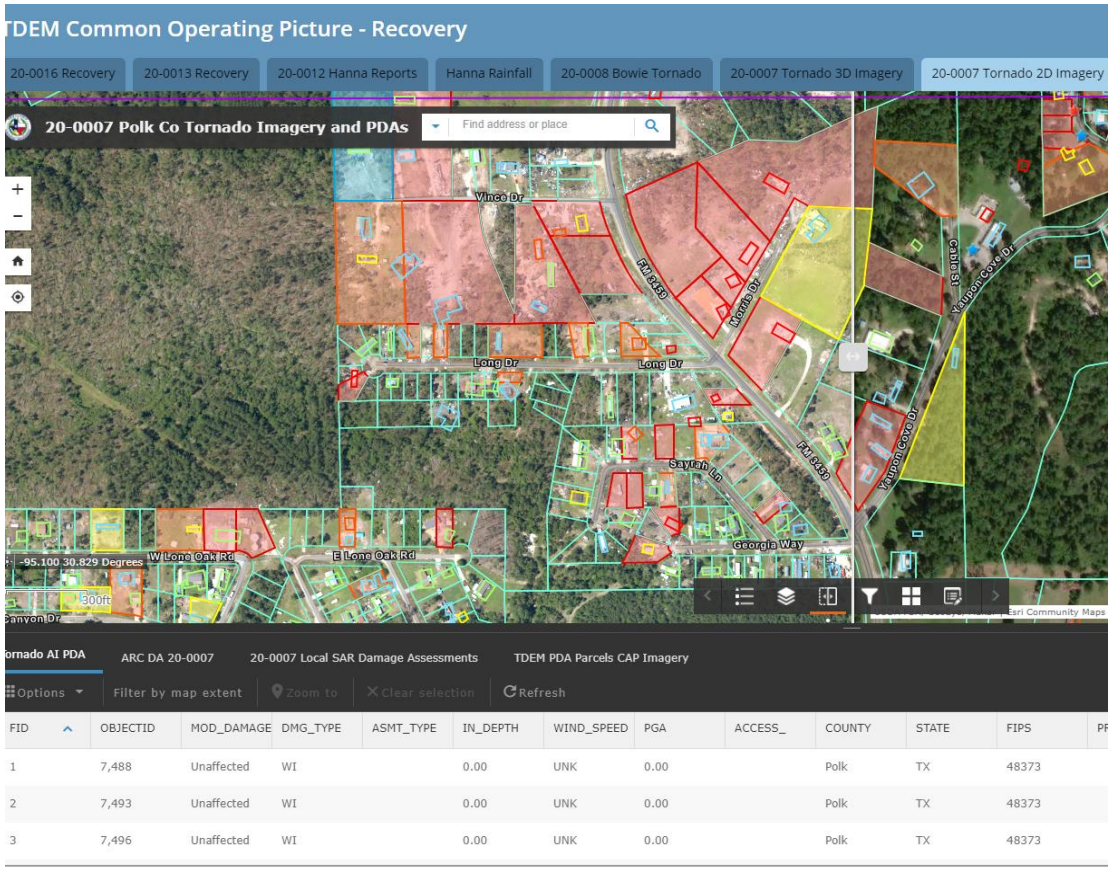
- Civil Air Patrol (CAP) Photography
  - High resolution airborne imagery
  - Geo-tagged
- Traditional Media
  - Photos or traditional media
  - Social Media



2D Imagery

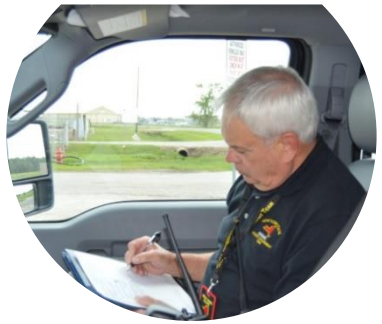


The tools bar allows the user to change map views and layer data desired



Double clicking the tab at the bottom will bring up the data view at the bottom.

3D Imagery with Parcel Data and AI Damage Assessment



What is a Disaster Summary Outline (DSO)?

- TDEM's online tool to collect disaster damage estimates from jurisdictions which helps determine the scope of disaster damages

- Provides data needed to…
  - identify and communicate necessary **resources**
  - determine if Joint Preliminary Damage Assessments (**PDAs**) are needed
  - potentially support a request, a **disaster declaration,** and federal assistance

Contact Information

Disaster Recovery Task Force staff and members are deployable resources during times of disasters or emergencies. For additional information contact your District Coordinator.

Kharley Bagley-Smith
Section Chief - Disaster Recovery Task Force
Texas Division of Emergency Management
kharley.smith@tdem.Texas.gov
Office: 512-936-0043
Cell: 512-574-9657
Alt Cell: 512-618-0247

Rachel Stepp
Region 2 Coordinator- Disaster Recovery Task Force
Texas Division of Emergency Management
rachel.stepp@tdem.texas.gov
Cell: (346) 260-7164